GlideinWMS - Feature #21885

Support to run test and periodic scripts within Singularity

02/11/2019 06:38 PM - Marco Mambelli

Status:	Resolved		**Start date:**	02/11/2019
Priority:	High		**Due date:**	
Assignee:	Marco Mambelli		**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:	v3_7_1		**Spent time:**	0.00 hour
Stakeholders:	OSG			

Description

Currently, the Glidein can run arbitrary user scripts:
- before starting condor (to test and setup the node)
- periodically to test the node or to monitor (startd cron jobs)

All these scripts run outside Singularity
Users writing the script can invoke Singularity on their own if they like it
Since 3.4.1 there is a library that makes this easier (singularity_lib.sh)

The next step (the goal of this ticket) is to allow VOs to do that with an option in the script description in the config file (like they do to say if a script is periodic or not)

Related issues:

Related to GlideinWMS - Milestone #19515: Roadmap for Singularity support	**New**	03/27/2018
Blocks GlideinWMS - Feature #25096: Support to run periodic scripts within Si...	**New**	10/20/2020
Blocks GlideinWMS - Feature #25073: Allow VO scripts to run before the job (i...	**Assigned**	10/14/2020

History

#1 - 02/11/2019 06:38 PM - Marco Mambelli

- Related to Milestone #19515: Roadmap for Singularity support added

#2 - 07/05/2019 05:30 PM - Marco Mambelli

- Assignee set to Marco Mambelli

#3 - 08/16/2019 10:17 AM - Marco Mambelli

- Target version changed from v3_5_1 to v3_6_1

#4 - 10/29/2019 11:13 AM - Marco Mambelli

- Target version changed from v3_6_1 to v3_6_2

#5 - 12/18/2019 10:16 AM - Marco Mambelli

- Target version changed from v3_6_2 to v3_6_3

#6 - 08/20/2020 10:30 AM - Marco Mambelli

- Target version changed from v3_6_3 to v3_6_4

#7 - 09/17/2020 02:14 PM - Marco Mambelli

- Target version changed from v3_6_4 to v3_6_5

#8 - 10/04/2020 01:48 AM - Marco Mambelli

- Target version changed from v3_6_5 to v3_6_6

#9 - 10/08/2020 09:50 AM - Marco Mambelli

- Priority changed from Normal to High

- Status changed from New to Work in progress

#10 - 10/14/2020 10:50 AM - Marco Mambelli

- Related to Feature #25073: Allow VO scripts to run before the job (in Singularity if used) added

#11 - 10/20/2020 09:54 PM - Marco Mambelli

- Blocks Feature #25096: Support to run periodic scripts within Singularity added

#12 - 10/20/2020 10:01 PM - Marco Mambelli

- Target version changed from v3_6_6 to v3_7_1

- Assignee changed from Marco Mambelli to Dennis Box

- Status changed from Work in progress to Feedback

Changes are in v37/21885
It was moved to the 3.7.x series because it introduces a new configuration attribute for the files: type, defaulting to an empty value. The solution should be compatible w/ older configurations and allow interactions of w/ older factories or frontends.
For the feature to work the Factory has to be w/ these changes and if the file definition is in the Frontend configuration, then also the Frontend has to have the changes.
Otherwise, the test script will run but not in singularity

This ticket allows running setup scripts in singularity, with an environment similar to the one of the job.

The running of periodic scripts in singularity has been moved to [#25096]:
- HTCondor may provide a mechanism to run startd_cron scripts in singularity
- the current mechanism (script re-invoking itself) may not work in startd_cron
It could actually work with little or no changes but should be verified, especially the function adding the script in the condor configuration and the ability to access the environment and the files.

This ticket started also the foundations for [#25073], by adding some definitions and an implicit pre-script from the refactoring of the default_singularity_job_wrapper.

#13 - 10/20/2020 10:02 PM - Marco Mambelli

- Related to deleted (Feature #25073: Allow VO scripts to run before the job (in Singularity if used))

#14 - 10/20/2020 10:02 PM - Marco Mambelli

- Blocks Feature #25073: Allow VO scripts to run before the job (in Singularity if used) added

#15 - 10/21/2020 12:26 PM - Marco Mambelli

- Assignee changed from Dennis Box to Bruno Coimbra

Added a fixture file to fix the failing unit test. All OK now.

#16 - 10/23/2020 11:42 AM - Bruno Coimbra

- Assignee changed from Bruno Coimbra to Marco Mambelli

- Status changed from Feedback to Assigned

All looks good to me. Shellcheck recomends a few style changes.

singularity_wrapper.sh:

    Shellcheck recomends using $(...) notation instead of legacy backticked `...`

#17 - 10/25/2020 11:22 AM - Marco Mambelli

- Assignee changed from Marco Mambelli to Bruno Coimbra

- Status changed from Assigned to Feedback

Major changes to v37/21885 please re-check

#18 - 10/27/2020 09:04 AM - Bruno Coimbra

- Assignee changed from Bruno Coimbra to Marco Mambelli

- Status changed from Feedback to Assigned

All looks good. It should be ready to merge.

#19 - 10/27/2020 09:21 AM - Marco Mambelli

- Status changed from Assigned to Resolved